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PATENT
Smith

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Todd A. Merritt	Examiner:	Kenneth B. Wells
Serial No.:	09/560,121	Group Art Unit:	2816
Filed:	April 28, 2000	Docket:	303.626US1
Title:	HIGH OUTPUT HIGH EFFICIENCY LOW VOLTAGE CHARGE PUMP		

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Commissioner for Patents
Washington, D.C. 20231

Applicant has reviewed the Office Action mailed on February 19, 2002. Please find the above-identified patent application as follows.

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IN THE SPECIFICATION

The Office Action objected to informalities on page 3, page 5, and page 6.

Please make the paragraph substitutions indicated in the appendix entitled Clean Version of Amended Specification Paragraphs. The specific changes incorporated in the substitute paragraphs are shown in the following marked-up version of the original paragraph.

The paragraph beginning on page 2, line 29 is amended as follows:

An illustrative embodiment includes a charge pump circuit. The charge pump circuit includes an oscillator to generate an oscillating signal. The charge pump circuit further includes a primary phase generator, which receives the oscillating signal and generates [a] first and [a] second phase signals that are non-overlapping and crossing around their high points. The primary phase generator further generates [a] third and fourth phase signals that are non-overlapping and crossing around their low points. The charge pump circuit further includes a secondary phase generator, which receives the first and second phase signals from the primary phase generator, and generates [a] fifth and sixth phase signals that are similar to the first and second phase signals and having a predetermined delay from the first and second phase signals. The charge circuit further includes [a] first and second pre-boot precharge capacitors, which receive the third and fourth phase signals from the primary phase generator. The charge pump circuit further includes [a] first and second pre-boot capacitors, which receive the first and second phase signals from the primary phase generator, and is further precharged by the first and second pre-boot precharge capacitors during a first phase and a second phase respectively to a